

92-039

TEMPORARY ADDENDUM TO CSA No. 1310

November 24, 1992

This document has been approved for release
to the public by:

Distribution

[Signature]
Technical Information Officer
Oak Ridge K-25 Site

Date

Disposal of Waste Water to CNF

Per November 24, 1992, telephone conversation with T. A. Bowers, it is understood that there is an approximate 20,000-gal volume of waste water contained in the pond waste management filtrate collection system which requires treatment. Samples of the waste water show a ^{235}U enrichment of 1.26% (the second sample was insufficient for enrichment analysis) and uranium concentrations of 0.9 and 1.0 mg U/L. Based upon the 20,000-gal volume, 1.26% ^{235}U enrichment, and 1.0 mg U/L, the total ^{235}U mass to be processed is 75.7 g. This mass is a factor of 47.6 below the safe mass of 3.60 kg ^{235}U (240 kg U) at 1.5% ^{235}U enrichment (reference K-1019, page 22, Table XIV) and may be safely processed through the CNF.

It is understood that there are 5 tanks in the pond waste management filtrate collection system and that each tank has a capacity of 20,000 gal. It is also understood that all 5 tanks are currently full and the paragraph above authorizes the treatment of the contents of one of the tanks. It is further understood that it may be necessary to process the contents of 1 or more of the 4 remaining tanks although duplicate sample results are not available at this time. If it is desired to process the contents of these tanks, then the following limits and conditions must be observed:

1. Duplicate sample each tank for ^{235}U enrichment and uranium concentration.
2. Both ^{235}U enrichment results must be $\leq 1.5\%$.
3. Both uranium concentration results must be ≤ 2.5 mg U/L.
4. These limits and conditions are applicable only to the waste water batch currently in these tanks.

This addendum expires on December 4, 1992. *This addendum is extended to December 11, 1992, at which this addendum expires. J. Grogan 12/4/92*

R. G. Taylor
R. G. Taylor

C. A. Sweet
C. A. Sweet

RGT:lde

Distribution:

B. O. Barritt
M. O. Beeler
T. A. Bowers
J. S. Fickey

C. C.

Watson

This document has been reviewed for
classification and has been determined to
be UNCLASSIFIED.

[Signature]

ADC Signature

4/6/95
Date

Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by

MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400

RECORD COPY